CCC - P68747 Page 1 of 1

## **PURAFIL ENVIRONMENTAL CORROSIVITY REPORT**

17-Nov-2010

**Company:** 118611

Room/Area ID: Reference #:



 Sales Order #:
 C002726

 CCC Panel #:
 P68747

 Date In:
 19-Oct-2010

 Date Out:
 01-Nov-2010

Days In Service: 13

**CCC Panel # P68747** 

ISA Class G2 Moderate

Copper Corrosion 318 Å/30 Days

Silver Corrosion 240 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P68747

The electrolytic reduction analysis on Corrosion Classification Coupon #P68747 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

Displaying Page 1 Display Page 2

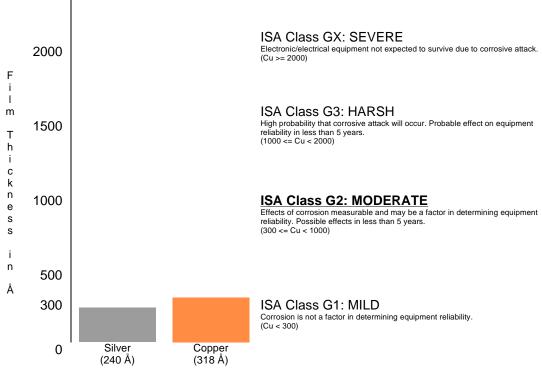
CCC - P68747 Page 1 of 1

## PURAFIL CCC # P68747 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	30 Days	1 Year	<u>5 Year</u>	magnifica zox
Copper Films				
Cu <sub>2</sub> S	0 Å	0 Å	0 Å	
Cu <sub>2</sub> O	121 Å	160 Å	209 Å	
Unknowns	197 Å	260 Å	340 Å	
Totals	318 Å	420 Å	549 Å	
Silver Films				
AgCl	33 Å	408 Å	2038 Å	
Ag <sub>2</sub> S	207 Å	2523 Å	12614 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	240 Å	2931 Å	14652 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

## **Equipment Reliability Correlation**

(ISA Standard S71.04-1985 for Copper)



Displaying Page 2 Display Page 1